Chapter 7

Download

- 7.1 Introduction to Download
- 7.2 The DSLIST Screen
- 7.3 Printing a Data Set List

7-**i**

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7.1 Introduction to Download

This chapter contains instructions for using the Download option on the *ISPF/PDF Primary Option Menu* screen. This option allows you to download text files from the NSLDS mainframe to a PC. The Download option also lets you list, browse, edit, delete, rename, or obtain information about the files available for downloading.

When you create data files using a tool such as the Query Management Facility (QMF) or Report Management and Distribution System (RMDS), and select Download as your output destination, the system allows you to download them through the *ISPF/PDF Primary Option Menu* screen (Figure 7–1).

```
OPTION ===>
  0 ISPF PARMS - Specify terminal and user parameters USERID
                                                       - z@z
  1 BROWSE - Display source data or output listings TIME
                                                        - 11:34
  6 COMMAND - Enter TSO Command, CLIST, or REXX exec TERMINAL - 3278
  8 SDSF
              - System Display and Search Facility PF KEYS - 12
  D DOWNLOAD - List data sets for download to PC
                                                        - 98/09/07
                                                DATE
  P PRF
             - Platinum Report Facility
                                                       - 98.250
                                                JULIAN
              - Query Management Facility
  Q QMF
  k RMDS
S SORT
             - Report Management and Distribution System
             - Sort facility
  T TUTORIAL - Display information about ISPF/PDF
  X EXIT
             - Terminate ISPF using log and list defaults
Enter END command to terminate ISPF.
```

Figure 7–1, NSLDS—ISPF/PDF Primary Option Menu

Note: Option **P** (Platinum Report Facility) is no longer available to ED. Use QMF instead.

- 1. At the Option prompt, type **D** and press **ENTER**. Depending on which terminal emulation software you use, you may need to press **CTRL** whenever instructed to "press **ENTER**" in this section. Check your terminal emulation software documentation or online help to be sure.
- 2. The *Data Set List Utility* screen displays (Figure 7–2).

```
OPTION ===>

blank - Display data set list * P - Print data set list

DSNAME LEVEL ===> NSLPC.XXX

* The following line commands will be available when the list is displayed:

B - Browse data set
E - Edit data set
D - Delete data set
R - Rename data set
I - Data set information
S - Information (short)
```

Figure 7-2, Data Set List Utility Screen

The top half of this screen contains instructions for displaying or printing the data sets associated with your user ID (represented by 'XXX' in the "DSNAME LEVEL" field in Figure 7–2 and throughout this chapter). The bottom half of the screen contains a list of commands you can use *after* you display the data set list.

Two options are available on this screen:

- 1. Leave the screen blank and press **ENTER** to download, list, browse, edit, delete, rename, or obtain information about the data files associated with your user ID.
- 2. Type **P** at the Option prompt to print the list of files.

The following sections explain how to use these two options.

7.2 The DSLIST Screen

If you press **ENTER** at the Data Set List Utility screen, the system displays the *DSLIST* screen (Figure 7–3).

7–2 Semiannual Delivery

DSLIST - DATA SETS BEGINNING WITH NSLPC. COMMAND ===>	XXX ROW 1 OF 36 SCROLL ===> PAGE
COMMAND NAME	MESSAGE VOLUME
NSLPC.XXX.DISCARD.D97315.T13511	l1 N9W001
NSLPC.XXX.EXTP070.D97127.T13002	N9P032
NSLPC.XXX.EXTP092.D97111.T11303	37 MIGRAT
NSLPC.XXX.EXTP092.D97114.T14324	17 MIGRAT
NSLPC.XXX.EXTP110.D97114.T16374	10 MIGRAT
NSLPC.XXX.EXTP153.D97111.T12004	18 MIGRAT
NSLPC.XXX.EXTP153.D97114.T15520	08 MIGRAT
NSLPC.XXX.EXTP153.D97132.T06402	20 MIGRAT
NSLPC.XXX.NOIG.Q1	N9P010
NSLPC.XXX.NOIG.Q2	N9P028
NSLPC.XXX.RP.D97112.T143035	MIGRAT
NSLPC.XXX.RP.D97254.T131125	MIGRAT
NSLPC.XXX.RPDON.D97239.T154633	MIGRAT
NSLPC.XXX.RPN010.D97111.T113121	MIGRAT
NSLPC.XXX.RPN011.D97111.T113205	MIGRAT
NSLPC.XXX.RPN011.D97114.T124147	MIGRAT
NSLPC.XXX.RPN012.D97112.T143114	MIGRAT
NSLPC.XXX.RPN012.D97114.T125657	MIGRAT
	, .

Figure 7–3, DSLIST Screen (Partial View)

The DSLIST screen contains four columns:

- **COMMAND**—contains input fields, one for each line in the NAME list, in which you can enter single-letter commands that allow you to browse, edit, delete, rename, or view information about the associated file. Section 7.2.3 describes these commands.
- NAME—displays a list of all the data sets that you are authorized to work with.
- MESSAGE—usually empty.
- **VOLUME**—displays the TSO volume number of each data set. Data sets with alphanumeric volume numbers like 'N9P010' are available for immediate access. Data sets with 'MIGRATED' rather than a volume number have been moved to magnetic tape and must be restored before they can be accessed. Section 7.2.1.3 describes the procedure for restoring migrated data sets.

7.2.1 Finding a Data File

Before you can download, edit, delete, or perform any other operation on a data file, you must locate the file in the list presented by the *DSLIST* screen. If the list is short (one screen-full or less) or if the needed file happens to appear at the top of the list, no searching is necessary. If the list contains many names, however, you may have to hunt for the one you need.

7.2.1.1 Manual Searching—The Scroll Commands

To search manually, you can use four function keys to scroll the data file list up, down, or sideways until you locate the file you want. These keys are:

- F7—Scroll up
- F8—Scroll down
- F10—Scroll left
- F11—Scroll right

These functions also work on the *Browse* and *Edit* screens.

By default, F7 and F8 scroll the list one screen-full at a time. You can change the scroll amount by tabbing to the Scroll field and replacing the default value 'PAGE' with another value. Typing a number in the Scroll field will cause F7 and F8 to scroll the list up or down by that many lines. For example, if you delete 'PAGE' and type *1* (Figure 7–4), scrolling will be one line at a time. You can scroll all the way to the top or bottom of the list by deleting 'PAGE' and typing *M*. If you wish to return to the default page-at-a-time scroll value, simply re-type *PAGE* in the Scroll field.

OSLIST - DATA SETS BEGINNING WITH NSLPC.XXX COMMAND ===>	X ROW 1 OF SCROLL ===> 1		
COMMAND NAME	MESSAGE	VOLUME	
NSLPC.XXX.DISCARD.D97315.T135111		N9W001	
NSLPC.XXX.EXTP070.D97127.T130021		N9P032	
NSLPC.XXX.EXTP092.D97111.T113037		MIGRAT	
NSLPC.XXX.EXTP092.D97114.T143247		MIGRAT	
NSLPC.XXX.EXTP110.D97114.T163740		MIGRAT	
NSLPC.XXX.EXTP153.D97111.T120048		MIGRAT	
NSLPC.XXX.EXTP153.D97114.T155208		MIGRAT	
NSLPC.XXX.EXTP153.D97132.T064020		MIGRAT	
NSLPC.XXX.NOIG.Q1		N9P010	
NSLPC.XXX.NOIG.Q2		N9P028	
NSLPC.XXX.RP.D97112.T143035		MIGRAT	
NSLPC.XXX.RP.D97254.T131125		MIGRAT	
NSLPC.XXX.RPDON.D97239.T154633		MIGRAT	
NSLPC.XXX.RPN010.D97111.T113121		MIGRAT	
NSLPC.XXX.RPN011.D97111.T113205		MIGRAT	
NSLPC.XXX.RPN011.D97114.T124147		MIGRAT	
NSLPC.XXX.RPN012.D97112.T143114		MIGRAT	
NSLPC.XXX.RPN012.D97114.T125657		MIGRAT	

Figure 7–4, DSLIST Screen (Set to Scroll One Line at a Time)

7.2.1.2 Automatic Searching—The Find Command

The Find command is a general-purpose tool for locating text in a display screen. You can use this command on the *DSLIST* screen and on the *Browse* and *Edit* screens. The following instructions apply to all three screens.

- 1. Press **TAB** to advance the cursor to the Command line.
- 2. Type *f*, followed by a space, followed by the text or part of the text you are looking for, and press **ENTER**.

For example, if you are looking for text that contains the word "DISCARD", type f

discard at the Command prompt, and press ENTER.

3. The system locates the first occurrence of the text that you entered, and automatically scrolls until that text is on the first line of the screen listing. If the text is found on the same screen the search was started from, the cursor will go to the selected data. An example of a successful search is shown in Figure 7–5. Notice the message, "CHARS 'DISCARD' FOUND", in the upper right hand corner of the screen. If the matching text is not what you need, you can continue the search by pressing **F5** to repeat the 'f' command.

DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX -	CHARS'DISCAI	RD'FOUND
COMMAND ===> f discard	SCROLL ==:	=> PAGE
COMMAND NAME	MESSAGE	VOLUME
NSLPC.XXX.DISCARD.D97315.T135111		N9W001
NSLPC.XXX.EXTP070.D97127.T130021		N9P032
NSLPC.XXX.EXTP092.D97111.T113037		MIGRAT
NSLPC.XXX.EXTP092.D97114.T143247		MIGRAT
NSLPC.XXX.EXTP110.D97114.T163740		MIGRAT
NSLPC.XXX.EXTP153.D97111.T120048		MIGRAT
NSLPC.XXX.EXTP153.D97114.T155208		MIGRAT
NSLPC.XXX.EXTP153.D97132.T064020		MIGRAT
NSLPC.XXX.NOIG.Q1		N9P010
NSLPC.XXX.NOIG.Q2		N9P028
NSLPC.XXX.RP.D97112.T143035		MIGRAT
NSLPC.XXX.RP.D97254.T131125		MIGRAT
NSLPC.XXX.RPDON.D97239.T154633		MIGRAT
NSLPC.XXX.RPN010.D97111.T113121		MIGRAT
NSLPC.XXX.RPN011.D97111.T113205		MIGRAT
NSLPC.XXX.RPN011.D97114.T124147		MIGRAT
NSLPC.XXX.RPN012.D97112.T143114		MIGRAT
NSLPC.XXX.RPN012.D97114.T125657		MIGRAT

Figure 7–5, DSLIST Screen (Example of a Successful Search)

4. If the automatic search finds no matching text, the *DSLIST* screen displays the "NO CHARS XXXXX FOUND" message (Figure 7–6). If you pressed **F5** (repeat), the message says "BOTTOM OF DATA REACHED."

DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX	*NO CHARS \EXTR	A' FOUND*
COMMAND ===> f extra	SCROLL =	==> PAGE
0011110	20	
COMMAND NAME	MESSAGE	VOLUME
NSLPC.XXX.DISCARD.D97315.T135111		N9W001
NSLPC.XXX.EXTP070.D97127.T130021		N9P032
NSLPC.XXX.EXTP092.D97111.T113037		MIGRAT
NSLPC.XXX.EXTP092.D97114.T143247		MIGRAT
NSLPC.XXX.EXTP110.D97114.T163740		MIGRAT
NSLPC.XXX.EXTP153.D97111.T120048		MIGRAT
NSLPC.XXX.EXTP153.D97114.T155208		MIGRAT
NSLPC.XXX.EXTP153.D97132.T064020		MIGRAT
NSLPC.XXX.NOIG.Q1		N9P010
NSLPC.XXX.NOIG.Q2		N9P028
NSLPC.XXX.RP.D97112.T143035		MIGRAT
NSLPC.XXX.RP.D97254.T131125		MIGRAT
NSLPC.XXX.RPDON.D97239.T154633		MIGRAT
NSLPC.XXX.RPN010.D97111.T113121		MIGRAT
NSLPC.XXX.RPN011.D97111.T113205		MIGRAT
NSLPC.XXX.RPN011.D97114.T124147		MIGRAT
NSLPC.XXX.RPN012.D97112.T143114		MIGRAT
NSLPC.XXX.RPN012.D97114.T125657		MIGRAT

Figure 7–6, DSLIST Screen (Example of an Unsuccessful Search)

The basic search described above is sufficient for most purposes. If you want to restrict the search to particular table columns or areas of text, however, you must add the beginning and ending character numbers of the desired range to the Find command. To get these character numbers, you must use the ruler. The ruler shows the number of characters on each screen row. To activate the ruler in a display screen, type *COLS ON* at the command prompt and press **ENTER**. The system displays the ruler above the data (Figure 7–7).

OMMAND ===>	+3+	-4	6		===> PAG
	****** TOP (. •		•
TBNAME	NAME	TBCREATOR	COLNO	COLTYPE	LENGTH
AGG DESC	ID	\$ED	1	SMALLINT	2
AGG DESC DET	DESC ID	\$ED	2	SMALLINT	2
AGG DESC DET	ID _	\$ED	1	SMALLINT	2
AGG DESC ITEM	DESC DET ID	\$ED	4	SMALLINT	2
AGG DESC ITEM	DESC ID	\$ED	3	SMALLINT	2
AGG DESCN	DESC ID	\$ED	3	SMALLINT	2
AGG DESCN	ID _	\$ED	1	SMALLINT	2
AGG_PURP	DESC_ID	\$ED	3	SMALLINT	2
AGG PURP	ID _	\$ED	1	SMALLINT	2
AID OVRPMT	AID TYPE	\$ED	5	CHAR	2
AID OVRPMT	UPDT USER ID	\$ED	9	CHAR	8
COLL	ID STU SEQ NO	\$ED	11	SMALLINT	2
FDSLP SVR BR HOL	ID STU SEQ NO	\$ED	6	SMALLINT	2
FINANC PROF	INCM TAX PAID	\$ED	10	INTEGER	4
FS SBMTL RUN ERR	FFEL DUP ID	\$ED	13	CHAR	1
GA AGG	DESC DET ID	SED	6	SMALLINT	2

Figure 7–7, Browse Screen with Active Ruler

The ruler displays a number every 10 characters. Therefore, "1" on the ruler means 10 characters, "2" means 20 characters, and so on. Between numbers, the "+" symbol occurs every 5 characters. The first "+" is at 5 characters, the second at 15, the third at 25, etc. The "-" symbols stand for individual character positions.

To specify a range of columns to search, use the ruler to measure the character count at the beginning of the search range and at the end of the search range. Then append these two numbers to the basic Find command. For example, to search only the NAME field for the string "ID" in Figure 18–7, type *f ID 23 40* and press **ENTER**.

If the system finds the string within the specified range, it displays the message "CHARS 'XX' FOUND," in the upper right-hand corner of the screen and highlights the first occurrence of the string in red. An example of a successful search in a browse screen is shown in Figure 7–8.

BROWSE NSLP	C.S@B.RPS@B.D98223.T09	3806		CHARS	'ID' FOUND	
COMMAND ===>				SCROLL	===> PAGE	
********	****** TOP	OF DATA *	******	*****	*****	
TBNAME	NAME	TBCRE	ATOR COLNO	COLTYPE	LENGTH	

AGG_DESC	ID	\$ED	1	SMALLINT	2
AGG_DESC_DET	DESC_ID	\$ED	2	SMALLINT	2
AGG_DESC_DET	ID	\$ED	1	SMALLINT	2
AGG_DESC_ITEM	DESC_DET_ID	\$ED	4	SMALLINT	2
AGG_DESC_ITEM	DESC_ID	\$ED	3	SMALLINT	2
AGG_DESCN	DESC_ID	\$ED	3	SMALLINT	2
AGG DESCN	ID	\$ED	1	SMALLINT	2
AGG_PURP	DESC_ID	\$ED	3	SMALLINT	2
AGG_PURP	ID	\$ED	1	SMALLINT	2
AID OVRPMT	AID TYPE	\$ED	5	CHAR	2
AID_OVRPMT	UPDT_USER_ID	\$ED	9	CHAR	8
COLL	ID_STU_SEQ_NO	\$ED	11	SMALLINT	2
FDSLP_SVR_BR_HOL	ID STU SEQ NO	\$ED	6	SMALLINT	2
FINANC_PROF	INCM_TAX_PAID	\$ED	10	INTEGER	4
FS_SBMTL_RUN_ERR	FFEL_DUP_ID	\$ED	13	CHAR	1
GA_AGG	DESC_DET_ID	\$ED	6	SMALLINT	2
GA_AGG	DESC_ID	\$ED	7	SMALLINT	2

Figure 7–8, Browse Screen After Successful Find

You can search for further occurrences of the string by pressing F5 until you find what you need.

Another useful feature of the Find command is the ability to count the number of occurrences of a given string or file name. To use this feature, simply type the word *all* at the end of the Find command. For example, to count the number of occurrences of the string "ID" in the NAME column of Figure 7–7, type *f ID 23 40 all* and press **ENTER**. As in the previous search, the system highlights the first occurrence of the specified string. Instead of the "found" message, however, the system now displays the number of occurrences of the string, followed by the string itself. The results of this search are shown in Figure 7–9.

ROWSE NSLPC.S@B.RPS@B.D98223.T093806 76 - CHARS 'ID' OMMAND ===> SCROLL ===> PAGE+1					
TBNAME	NAME	TBCREATOR	COLNO	COLTYPE	LENGTH
AGG DESC	ID	\$ED	1	SMALLINT	2
AGG_DESC_DET	DESC_ID	\$ED	2	SMALLINT	2
AGG DESC DET	ID _	\$ED	1	SMALLINT	2
AGG_DESC_ITEM	DESC_DET_ID	\$ED	4	SMALLINT	2
AGG_DESC_ITEM	DESC_ID	\$ED	3	SMALLINT	2
AGG DESCN	DESC_ID	\$ED	3	SMALLINT	2
AGG_DESCN	ID _	\$ED	1	SMALLINT	2
AGG_PURP	DESC_ID	\$ED	3	SMALLINT	2
AGG_PURP	ID	\$ED	1	SMALLINT	2
AID_OVRPMT	AID_TYPE	\$ED	5	CHAR	2
AID_OVRPMT	UPDT_USER_ID	\$ED	9	CHAR	8
COLL	ID_STU_SEQ_NO	\$ED	11	SMALLINT	2
FDSLP_SVR_BR_HOL	ID_STU_SEQ_NO	\$ED	6	SMALLINT	2
FINANC_PROF	INCM_TAX_PAID	\$ED	10	INTEGER	4
FS_SBMTL_RUN_ERR	FFEL_DUP_ID	\$ED	13	CHAR	1
GA AGG	DESC DET ID	\$ED	6	SMALLINT	2

Figure 7–9, Search Results Using "All"

Once again, pressing **F5** will continue the search. If you press **F5**, however, the count message will disappear.

7.2.1.3 Migrated Files

In some cases, a file's Volume field may contain the word "MIGRATED" rather than a volume number. The "MIGRATED" entry means that the file has been moved from the mainframe computer to magnetic tape. An operator at the NSLDS Data Center must physically load migrated data onto the computer, so a delay will occur before you can access it.

When you enter a command for a file that has been migrated, you will be prompted to request that the file be restored. The prompt requests input from you in three steps (Figure 7–10). Usually, you'll press **ENTER** twice, then identify a restoration method.

```
ARC 1020I DFSMShsm IS RECALLING FROM DASD DSN=NSLPC.XXX.EXTP070.D97127.T13002
YOU MAY CONVERT THE WAIT FOR RECALL BY PRESSING THE ATTENTION KEY.
FDRW70 ELIGIBLE FOR RECALL - DSN=NSLPC.XXX.EXTP070.D97127.T13002
FDRW71 TYPE 'END' TO BYPASS THE RESTORE OR PRESS 'ENTER' TO CONTINUE

FDRW 76 DATA SET IS SCHEDULED TO BE RESTORED TO VOLUME SERIAL NUMBER MIGRAT
FDRW 77 TYPE NEW VOLUME SERIAL NUMBER AS XXXXXXX OR PRESS 'ENTER' TO CONTINUE

FDRW 72 TO RESTORE THE DATA SET IN THE FOREGROUND -- REPLY 'FG'
FDRW 72 TO RESTORE THE DATA SET IN THE BACKGROUND -- REPLY 'BG'
FDRW 72 TO DEFER THE RESTORE VIA THE REMOTE QUEUE -- REPLY 'RQ'
FDRW 73 TYPE THE APPROPRIATE RESPONSE OR 'END' TO TERMINATE THE RESTORE

FDRW78 RESTORE START COMMAND ISSUED - YOU WILL BE NOTIFIED UPON COMPLETION

***
```

Figure 7–10, Prompt to Restore Migrated Files

Three restoration methods are available. You can use the one that best suits your timing requirements. The three methods are:

- **FG**—Foreground restoration. Your computer is essentially put on hold until the file is restored.
- **BG**—Background restoration. You may continue to work on other tasks, and will be notified when the data is available. Most people choose BG.
- **RQ**—Restore via remote queue. The selected file or files will be stacked in a job that will not run until you log off TSO.

The notification that your data file has been restored looks something like this:

```
FDR311 FDR RESTORED DSN=NSLPC.XXX.EXTP070.D97127.T13002 ALLOCATED CATALOGED (INTERNAL)
FDR311 ON VOLSER=N9P032 UNIT=3390-3 CN (INTERNAL)
```

Figure 7–11, Notification That Migrated Files Are Restored

Once the migrated data set has been restored, you can work with it as with any other file.

If you do not want to restore the file, type the word *END* and press *ENTER* after each question or prompt.

7.2.2 Downloading a Data File

To transfer a file from the mainframe computer to your personal computer, first be sure that no other applications (such as QMF) are running. Then follow these steps, which may vary somewhat depending on the communications software you are using:

- 1. On the *DSLIST* screen, find the file you want to download as instructed in Section 7.2.1.
- 2. Using your mouse, highlight the desired filename, then select <u>Edit</u>, <u>Copy</u> in the menu of your communications program. If your communications program has a toolbar, you can just click the **COPY** button.
- 3. Press **F3** twice to exit the Download facility and return to the *ISPF/PDF Primary Option Menu*
- 4. On the *ISPF/PDF Primary Option Menu*, type **6**, for the TSOcmd option, and press **ENTER**.
- 5. The *ISPF Command Shell* screen displays (Figure 7–12).

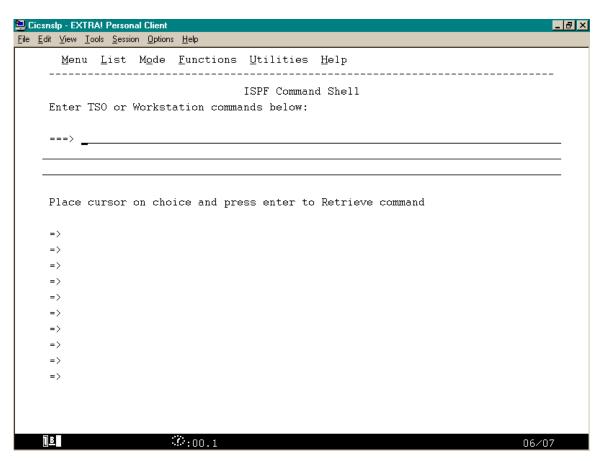


Figure 7–12, ISPF Command Shell Screen

6. Select the Transfer File option from your communications program's menu. Figure 7–13 shows the Transfer option in the Attachmate EXTRA! communications package, where it is called 'Transfer File' and is located on the <u>Tools</u> menu. If you are using different communications software, your Transfer option may have a different name or be located on a different menu.

7–10

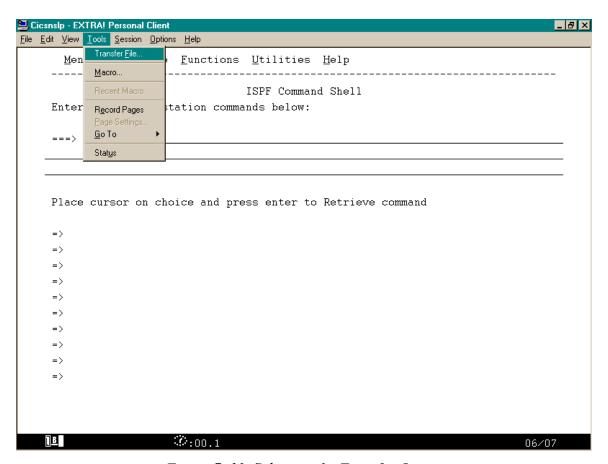


Figure 7–13, Selecting the Transfer Option

🖪 Transfer File _ 🗆 × Transfer list <u>n</u>ame: Saye As... Local Filename/Path Direction | Host Filename Scheme Cancel Help PC: Host Filename: Filename: C --> Send Path: C:\Program Files\E!PC\Sessions Type: ltso. ▾ ← Receive
 Browse <u>+</u> Scheme: Text Default Settings.. List logal files of type: All Files (*.*) ▼| Macros Name Type Modified Macros.bak Template 7/22/99 10:32 AM File Folder Schemes 7/22/99 10:57 AM 💌 AOMAudit.slg 6 KB SLG File Schemes.bak 🖳 Mainframe Dem... 9 KB EXTRA! Session 3/24/99 6:50 AM 🔁 Sessions 🕪 Mainframe Dem... 2 KB NavigationAction ... 3/24/99 6:50 AM Template 🧬 Mainframe Dem... 85 KB NavigationPath File 3/24/99 6:50 AM

The Transfer File dialog box should now appear (Figure 7–14).

Figure 7–14, Transfer File Dialog Box

- 7. Type the file name you want the data set to have on your PC in the PC Filename field. The file should normally be given a .txt extension, so the data will be saved as an ASCII file that can be read by all word processors. Even if you know you will be using MS Word, for example, don't save the file with a .doc extension. It must be saved as .txt, then converted from ASCII as Microsoft Word opens the file.
- 8. Click the Receive radio button to designate the transfer direction. Remember that when you are in the Download utility, you are working on the mainframe. Once you select Transfer, you are working on your PC again, and therefore receiving the file from the mainframe, or host.
- 9. Type the name of the data set you want to download in the Host Filename field. This is the data set name you copied in step 2. Paste it in by placing the cursor inside the Host Filename field and pressing the **CTRL** and **V** keys at the same time. Type a single quotation mark at the beginning of the filename and one at the end. Also, be sure there are no blank spaces anywhere in the data set name or the transfer won't work.

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- 10. Set the Host Type field to TSO and the Scheme field (or Mode field in some software packages) to Text Default.
- 11. After you have set all the values, click Add to List and then Transfer. The program will ask you if you want to save the changes to the transfer list before continuing. If you think you will need to download the same file to the same destination more than once, click Yes. In this case, the program will then ask you to enter a filename for the transfer list. Clicking Yes is not necessary to complete the transfer, however. You can click on No and the transfer will begin.
- 12. When the transfer is complete, the Transfer Summary dialog box is displayed (Figure 7–15). If the transfer was successful, a green check mark appears in the Action column and the Comments column should read "File transfer complete." Click the OK button and you will be returned to the *ISPF Command Shell* screen. Press **F3** to exit to the *ISPF/PDF Primary Option Menu* screen.

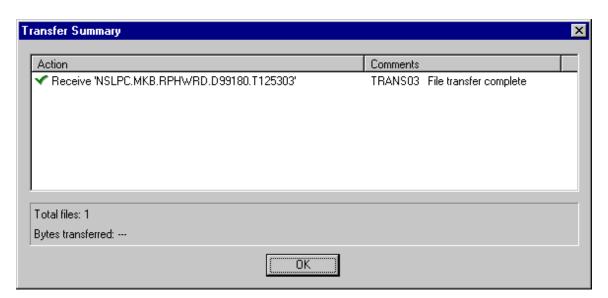


Figure 7–15, Transfer Summary Dialog Box

If the transfer was unsuccessful, an error message with a red X appears in the Action column and the Comments field contains an error message. If this occurs, you must repeat steps 6 through 12, correcting the errors, until the transfer succeeds.



The transferred file can now be loaded in a word processing or spreadsheet program for PCs. Refer to your PC software documentation to learn how to load an ASCII file into it.

7.2.2.1 Download Troubleshooting

If your file transfer fails, check to make sure the file transfer options in your communications program are set up correctly.

If you are using Attachmate, click <u>File</u>, <u>Properties</u>. Then click the Statistics tab. The program should display a panel like the one shown in Figure 7–16.

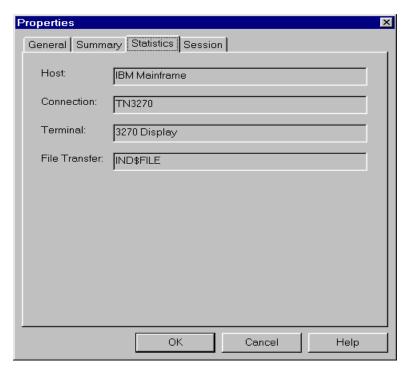


Figure 7–16, Properties Dialog Box, Statistics Tab

If the values on your panel differ from those shown here, you will have to create a new communication session. Contact the EDNet LAN Help Desk at (202) 708-5450, press 2 for computer, for assistance. If all values in the Statistics panel are correct, click the OK button.

Next, click <u>E</u>dit, <u>S</u>ettings, highlight the File Transfer category, and click the Advanced tab. The program should display a panel like the one shown in Figure 7–17. Change any settings that differ from those in this figure.

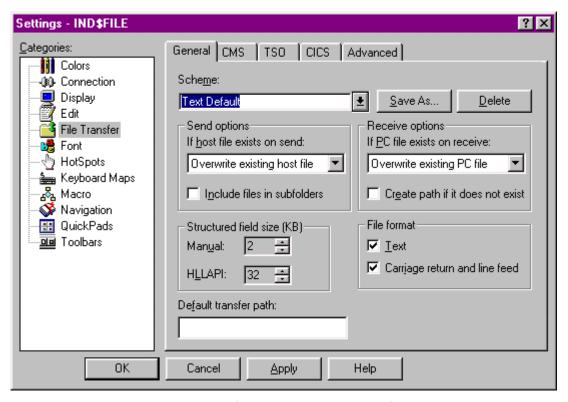


Figure 7–17, File Transfer Settings Dialog Box

Finally, click File, Save Session. Now try the download again.

7.2.3 Additional Functions of the DSLIST Screen

The Command column contains user entry fields to the left of each data set name. By entering a command in the field next to the name of a data set, you can browse, edit, delete, rename, or view information about the data set. Valid commands are:

- 'B' to browse the data set
- 'E' to edit the data set
- 'D' to delete the data set.
- 'R' to rename the data set
- 'I' to view information about the data set (long version)
- 'S' to view information about the data set (short version)

7.2.3.1 Browse Data Set

If you type B in the Command column to the left of a file name, the file will be displayed on the *Browse* screen (Figure 7–18). Note the screen name in the top left-hand corner. As this command

is BROWSE, this indicates that it is in a view-only mode. No changes can be made to this file using this option.

```
BROWSE -- NSLPC.XXX.RPN014.D97311.T120039 ------ LINE 00000000 COL 001 080
COMMAND ===>
                                                        SCROLL ===> CSR
                    ******* TOP OF DATA *************
Report ID: MBR004
                                           U.S. DEPARTMENT OF EDUCATION
                                     NATIONAL STUDENT LOAN DATA SYSTEM (NSL
Page No:
                                           LENDER ORIGINATION PROFILE
                  Period Begin: 10/01/95
Report Parameters:
                  Period End : 09/30/96
                  Lender Code
                                  : ALL
                  Lender Branch Code: ALL
                  Sort Sequence: LENDER, LOAN TYPE
                          Number
                                         Number
         Lender Branch
                         of Loans
                                        of Loans
                                                       Percentage
          Code
                  Code
                        This Period
                                       Prev Period
                                                        Change
Total Number of Loans Originated This Period:
                                                            O
Total Amount of Loans Originated This Period:
                                                             0
Total Number of Loans Originated Percentage Change Over Previous Period:
                                                                    0.00
Total Amount of Loans Originated Percentage Change Over Previous Period:
                                                                    0.00
End of LENDER ORIGINATION PROFILE
```

Figure 7–18, Browse Screen (Partial View)

Move through the file using the following function keys:

- $\mathbf{F3} = \mathbf{Exit}$
- F7 = Scroll backwards (up the list)
- F8 = Scroll forwards (down the list)
- $\mathbf{F10} = \mathbf{Move}$ to the left
- **F11** = Move to the right

Type an *M* on the Command line at the upper left hand corner, and press **F7**, **F8**, **F10**, or **F11** to move the maximum distance possible in the chosen direction.

Press **F3** to exit this screen.

7.2.3.2 Edit Data Set

If you type E in the Command column to the left of a file name, the file will be displayed on the *Edit* screen (Figure 7–19). Note the screen name in the top left-hand corner of the screen.

```
EDIT ---- NSLPC.XXX.RPN014.D97311.T120039 ------ COLUMNS 001 072
COMMAND ===>
                                                             SCROLL ===> CSR
                          ****** TOP OF DATA **********
000001 1Report ID: MBR004
                                                        U.S. DEPARTMENT OF EDU
000002
                                                 NATIONAL STUDENT LOAN DATA SY
      Page No:
000003 0
                                                        LENDER ORIGINATION PRO
000004
       Report Parameters:
                           Period Begin: 10/01/95
000005
                           Period End : 09/30/96
000006
                           Lender Code
                                             : AT.T.
000007
                           Lender Branch Code: ALL
                           Sort Sequence: LENDER, LOAN TYPE
000008
000009
                                    Number
                                                    Number
                  Lender Branch
000010
                                   of Loans
                                                    of Loans
                                                                    Percentage
000011
                   Code
                           Code
                                  This Period
                                                   Prev Period
                                                                      Change
000012
000013 OTotal Number of Loans Originated This Period:
                                                                          0
000014
       Total Amount of Loans Originated This Period:
                                                                           0
000015
       Total Number of Loans Originated Percentage Change Over Previous Period
000016
       Total Amount of Loans Originated Percentage Change Over Previous Period
000017 0End of LENDER ORIGINATION PROFILE
                  ****** **** *** BOTTOM OF DATA ******
```

Figure 7–19, Edit Screen (Partial View)

Edit the records using the standard TSO editing commands. Refer to the TSO Online Help if you need further information about editing a data set.

Move through the file using the following function keys:

- F3 = Exit
- F7 = Scroll backwards (up the list)
- **F8** = Scroll forwards (down the list)
- $\mathbf{F10} = \mathbf{Move}$ to the left
- **F11** = Move to the right

Type an *M* on the Command line and press **F7**, **F8**, **F10**, or **F11** to move the maximum distance possible in the chosen direction.

To exit and save your changes, press **F3**. To exit without saving changes, type *CANCEL*.

7.2.3.3 Delete Data Set

If you type **D** in the Command column to the left of a file name, the selected file will be displayed on the *Confirm Delete* screen (Figure 7–20).

```
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039
VOLUME: N9W001
CREATION DATE: 1997/11/11

INSTRUCTIONS:

Press ENTER key to confirm delete request.
(The data set will be deleted and uncataloged.)

Enter END command to cancel delete request.
```

Figure 7–20, Confirm Delete Screen

Press **ENTER** to confirm that you wish to delete the listed data file, or type the word *End* on the Command line to cancel the deletion request.

Press **F3** if you want to cancel the delete command.

If the file has been migrated, you can type the word **DELETE** at the Command line without having to recall the file from tape.

7.2.3.4 Rename Data Set

If you type **R** in the COMMAND column to the left of a file name, the selected file will be displayed on the *Rename Data Set* screen (Figure 7–21).

```
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039
VOLUME: N9W001

ENTER NEW NAME BELOW: (The data set will be recataloged.)

ISPF LIBRARY:
PROJECT ===>
GROUP ===>
TYPE ===>

OTHER PARTITIONED OR SEQUENTIAL DATA SET:
DATA SET NAME ===> 'NSLPC.XXX.DISCARD.D97315.T135111'
```

Figure 7–21, Rename Data Set Screen

Use the Data Set Name field at the bottom of the screen under 'Other Partitioned or Sequential Data Set' to enter the new name for your data file. In Figure 7–21, the data set 'NSLPC.XXX. RPN014.D97311.T120039' has been renamed 'NSLPC.XXX.DISCARD.D97315.T135111'. Press **ENTER** to return to the DSLIST screen.

The section named 'ISPF Library' should not be used.

Press **F3** if you want to cancel the Rename command. You will be returned to the DSLIST Screen.

7.2.3.5 Data Set Information (Short Version)

If you type **S** in the Command column to the left of a file name, the selected file will be displayed on the *Data Set Information* screen (Figure 7–22).

```
DATA SET INFORMATION
COMMAND ===>
DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039
GENERAL DATA:
                                            CURRENT ALLOCATION:
   Volume serial:
                          N9P425
                                               Allocated cylinders:
                                                                              1
   Device type:
                                               Allocated extents:
                          3390
   Organization:
                          PS
                          FBA
  Record format:
   Record length:
                          133
  Block size:
                          27930
                                            CURRENT UTILIZATION:
   1st extent cylinders:
                                                                              1
                          1
                                               Used cylinders:
   Secondary cylinders:
                          10
                                               Used extents:
   Creation date:
                          1997/11/07
   Expiration date:
                          ***NONE***
```

Figure 7–22, Data Set Information Screen (Short Version)

In addition to the data set's volume number and creation date, this screen displays basic information about the physical organization of the data set and how the data set is stored on the mainframe's storage device. The technical details of this information are beyond the scope of this User's Guide. Consult the TSO Online Help facility for an explanation of each field on this screen.

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7.2.3.6 Data Set Information (Long Version)

If you type *I* in the Command column to the left of a file name, the selected file will be displayed on the *Data Set Information* screen (Figure 7–23).

COMMAND	DATA SET I	NFORMATION	
COMMAND ===>			
DATA SET NAME: NSLPC.XXX	.RPN014.D97311	.T120039	
GENERAL DATA:		CURRENT ALLOCATION:	
Volume serial:	N9T106	Allocated tracks:	435
Device type:	3390	Allocated extents:	1
Organization:	PO	Maximum dir. blocks:	20
Record format:	F		
Record length:	80		
Block size:	80	CURRENT UTILIZATION:	
1st extent tracks:	435	Used tracks:	277
Secondary tracks:	45	Used extents:	1
		Used dir. blocks:	8
Creation date:	1995/05/11	Number of members:	45
Expiration date:	***NONE***		

Figure 7–23, Data Set Information Screen (Long Version)

This screen displays the same basic information as the short version described in Section 7.2.3.5, and adds the Maximum Dir. Blocks, Used Dir. Blocks, and Number of Members fields. The system may not display this longer version of the *Data Set Information* screen for all files. If the additional fields are not available, they will be left off and the screen will look like the short version.

7.3 Printing a Data Set List

If you choose Option P on the *Data Set List Utility* screen (Figure 7–2), the system will create a formatted report of the data set list information which can be viewed in the System Display and Search Facility (SDSF).

7.3.1 Setting up the Print Facility

Before you can use the Print facility, you must identify the default values for the process. After you have done this, you will not need to repeat the setup process.

To set up the Print facility:

1. At the *NSLDS ISPF/PDF Primary Option Menu* (Figure 7–1), type **0** (zero), for the ISPF Parms (Specify terminal and user parameters) option, and press **ENTER**.

2. The *ISPF Settings* screen displays (Figure 7–24).

```
Log/List Function keys Colors Environ Workstation
                                                             Identifier
                                   ISPF Settings
Command ===>
                                                                            More:
Options
                                             Print Graphics
Enter "/" to select option
                                            Family printer type 2
  Command line at bottom
                                           Device name . . .
/ Panel display CUA mode
                                           Aspect ratio . . . 0
  Long message in pop-up
/ Tab to action bar choices
  Tab to point-and-shoot fields
                                           General
_ rab to point-and-shoot rie.
/ Restore TEST/TRACE options
                                           Input field pad . . N Command delimiter . ;
  Session Manager mode
/ Jump from leader dots
Edit PRINTDS Command
/ Always show split line
 Enable EURO sign
Terminal Characteristics
Screen format
                1 1. Data
                               2. Std
                                          3. Max
                                                     4. Part
 F1=Help
               F2=Split
                              F3=Exit
                                            F7=Backward F8=Forward
                                                                         F9=Swap
 F10=Actions F12=Cancel
```

Figure 7–24, ISPF Settings Screen

3. Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* panel displays (Figure 7–25).

```
___ 1. Log Data set defaults
2. List Data set defaults
3. List Data set characteristics
4. JCL...
```

Figure 7–25, Log/List Panel

4. Type *I* on the selection line in the panel. Press **ENTER**. The *Log Data Set Default Options* panel displays (Figure 7–26).

```
ISPF Settings
                        Log Data Set Defaults
                                                          More:
  Process option . . . \underline{1}
                            1. Print data set and delete
                            Delete data set (without printing)

    Keep data set (append subsequent
information to same data set)

                            4. Keep data set and allocate new data
                               set
  SYSOUT class .
                           . ISPF Settings
  Local printer ID or
  writer-name . . . .
  Lines per page . . . .
  Primary pages . . . . List
  Secondary pages . . . .
  Log Message ID . .
                               (/ = Yes)
   F1=Help
                F2=Split
                               F3=Exit
                                             F7=Backward F8=Forward
   F9=Swap
               F12=Cancel
```

Figure 7–26, Log Data Set Defaults Panel

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- 5. Complete as shown in Figure 7–26 and then press **F3** to exit and save selections.
- 6. Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* panel displays (Figure 7–25) once more.
- 7. Type 2 and press *ENTER*. The *Log Data Set Defaults* Panel displays.

```
ISPF Settings
                      Log Data Set Defaults
 Process option . . .
                         1. Print data set and delete
                         2. Delete data set (without printing)
                         3. Keep data set (append subsequent
                            information to same data set)
                          4. Keep data set and allocate new data
                            set
 SYSOUT class . . . .
                         . ISPF Settings
 Local printer ID or
 writer-name
 Lines per page . . . .
 Primary pages . . . . List
 Secondary pages . . . .
               F2=Split
                            (/ = Yes)
 Log Message ID . .
                                         F7=Backward F8=Forward
  F1=Help
                            F3=Exit
  F9=Swap
              F12=Cancel
```

Figure 7–27, Log Data Set Defaults Panel

- 8. Complete as shown in Figure 7–27 and then press **F3** to exit and save selections.
- 9. Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* Panel displays (Figure 7–25) once more. Type **4** and press **ENTER**. The *Log and List JCL* Panel displays (Figure 7–28).

```
ISPF Settings

Log and List JCL

Job statement information: (Required for system printer)
//USERID JOB (ACCOUNT),'NAME'
//*
//*

F1=Help F2=Split F3=Exit F9=Swap F12=Cancel
```

Figure 7–28, Log and List JCL Panel

In this illustration, the unique three-character user ID assigned to each NSLDS user is replaced with the word **USERID** rather than with the three Xs used in previous illustrations. Where Figure 7–28 shows in the Job Statement Information section the word **USERID**, be sure to type your actual user ID.

10. Press **F3** to exit this screen, and return to the *ISPF/PDF Primary Option Menu*. Now that the defaults have been set, you can use the Print option.

7.3.2 Using the Print Option

- 1. From the *Data Set List Utility* screen (Figure 7–2), type **P** at the Option prompt and press **ENTER**. The following message displays: 'Data set list printed'.
- 2. Press the **F3** key to exit the *Data Set List Utility* screen. Press **F3** again to log off TSO.
- 3. The Specify Disposition of List Data Set screen will be displayed (Figure 7–29).

```
Specify Disposition of List Data Set
Command ===>

Log Data Set options not available

List Data Set Disposition
Process option . . . 1 1. Print data set and delete
2. Delete data set without printing
3. Keep data set - Same
(allocate same data set in next session)
4. Keep data set - New
(allocate new data set in next session)

SYSOUT class . . . . A
Local printer ID
or writer-name . . .

Press ENTER key to complete ISPF termination.
Enter END command to return to the primary option menu.
```

Figure 7–29, Specify Disposition of List Data Set Screen

NOTE: Your screen may show different values (or no values) in the "Log Options for This Session" and "List Options for This Session" sections, depending on the tasks you performed before exiting.

4. Press **ENTER**, and you will automatically be logged off or press **F3** to return to your session.

7.3.2.1 Seeing Your Report

- 1. From the *ISPF/PDF Primary Option Menu* (Figure 7–1), type **8**, for the System Display and Search Facility (SDSF) option.
- 2. The SDSF Primary Option Menu displays (Figure 7–32).

```
Display Filter View Print Options
HQX1900----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ===>
                                                                SCROLL ===> PAGE
    LOG
              - Display the system log
              - Display active users in the sysplex
    DA
              - Display jobs in the JES2 input queue
    Т
    0
              - Display jobs in the JES2 output queue
    н
              - Display jobs in the JES2 held output queue
    ST
              - Display status of jobs in the JES2 queues
              - Display JES2 printers on this system
- Display JES2 initiators on this system
    PR
    INIT
    ULOG
              - Display user session log
    END
              - Exit SDSF
    Licensed Materials - Property of IBM
    5647-A01 (C) Copyright IBM Corp. 1981, 1997. All rights reserved.
    US Government Users Restricted Rights - Use, duplication or
    disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
 F1=HELP
              F2=SPLIT
                            F3=END
                                         F4=RETURN
                                                       F5=IFIND
                                                                    F6=BOOK
  F7=UP
                             F9=SWAP
                                         F10=LEFT
                                                       F11=RIGHT
                                                                    F12=RETRIEVE
               F8=DOWN
```

Figure 7–30, SDSF Primary Options Menu

- 3. Type *ST*, for the Display status of jobs in the JES2 queues option, in the Command Input line at the top left corner of the screen.
- 4. The jobs will be listed on the *SDSF Status Display* screen (Figure 7–23). The screen may differ from the one shown in Figure 7–23, depending on which jobs you executed.

Notice that the JOBNAME consists of your user ID, followed by a single alphabetical character which automatically increments each time you make a print request. QMF batch jobs are identified with a 'Q'.

5. Select the desired print job by typing an \mathbf{S} to the left of it (Figure 7–31).

Display Filt	er View	Prin	t Options	s Help								
SDSF STATUS DISPLAY ALL CLASSES						LINE 1-16 (17)						
COMMAND INPUT ===>							SCRO	LL ===>	PAGE			
PREFIX=SZP*	DEST=(ALL)) OW	NER=CZT									
NP JOBNAME	JOBID	OWNE	R PRTY	QUEUE	C	POS	SAFF	ASYS	STATUS			
XXX	TSU18396	XXX	15	EXECUTI	ON		NSLP	NSLP				
XXXCEFC	T JOB10432	XXX	1	PRINT	J	1008						
XXXCEFC	JOB12372	XXX	1	PRINT	J	1718						
	JOB12707		1			1939						
XXXRC7K	A JOB13413	XXX	1	PRINT	J	2343						
XXXCEFC	r JOB14017	XXX	1	PRINT	J	2748						
XXXP1862	A JOB15225	XXX	1	PRINT	J	3397						
XXXRC712	A JOB15227	XXX	1	PRINT	J	3399						
XXXWB71	A JOB15229	XXX	1	PRINT	J	3400						
XXXPRIN	T JOB15658	XXX	1	PRINT	J	3632						
R#CCART	JOB16629	XXX	1	PRINT	A	4265						
XXXRB597	JOB17662	XXX	1	PRINT	J	5024						
XXXRB592	A JOB17669	XXX	1	PRINT	J	5026						
XXXP7902	A JOB17752	XXX	1	PRINT	J	5081						
XXXP1742	A JOB17898	XXX	1	PRINT	J	5190						
XXXP1752	A JOB17901	XXX	1	PRINT	J	5193						
F1=HELP	F2=SPLIT		F3=END	F4=R	ETURN	F5=	IFIND		F6=BOOK			
F7=UP	F8=DOWN		F9=SWAP	F10=	LEFT	F11	=RIGH	T 1	F12=RET	RIEVE		

Figure 7–31, Status Display Screen (Partial View)

6. The SDSF Output Display screen displays (Figure 7–32).

SDSF OUTPUT DISPLAY XXXB JOB07063 D	SID 101 LINE 0		COLUMNS	
COMMAND INPUT ===>			SCROLL ==	:=> PAGE
******* TOP OF	DATA ********	****	******	*****
LISTING OF DATA SETS BEGINNING WITH NSLF	C.XXX			
DATA SET NAME	VOLUME	ORG	RECFM	LRECI
NSLPC.XXX.EXTP070.D97127.T130021	N9P032	PS	FB	372
NSLPC.XXX.EXTP092.D97111.T113037	MIGRAT			
NSLPC.XXX.EXTP092.D97114.T143247	MIGRAT			
NSLPC.XXX.EXTP110.D97114.T163740	MIGRAT			
NSLPC.XXX.EXTP153.D97111.T120048	MIGRAT			
NSLPC.XXX.EXTP153.D97114.T155208	MIGRAT			
NSLPC.XXX.EXTP153.D97132.T064020	MIGRAT			
NSLPC.XXX.NOIG.Q1	N9P010	PS	FBA	341
NSLPC.XXX.NOIG.Q2	N9P028	PS	FBA	341
NSLPC.XXX.RP.D97112.T143035	MIGRAT			
NSLPC.XXX.RP.D97254.T131125	MIGRAT			
NSLPC.XXX.RPDON.D97239.T154633	MIGRAT			

Figure 7–32, SDSF Output Display Screen (Partial View)

7. Use standard TSO commands to work with the jobs, if you wish.